

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P939046

Luminaire Tested: **GALN-SB1B-950-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-950-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

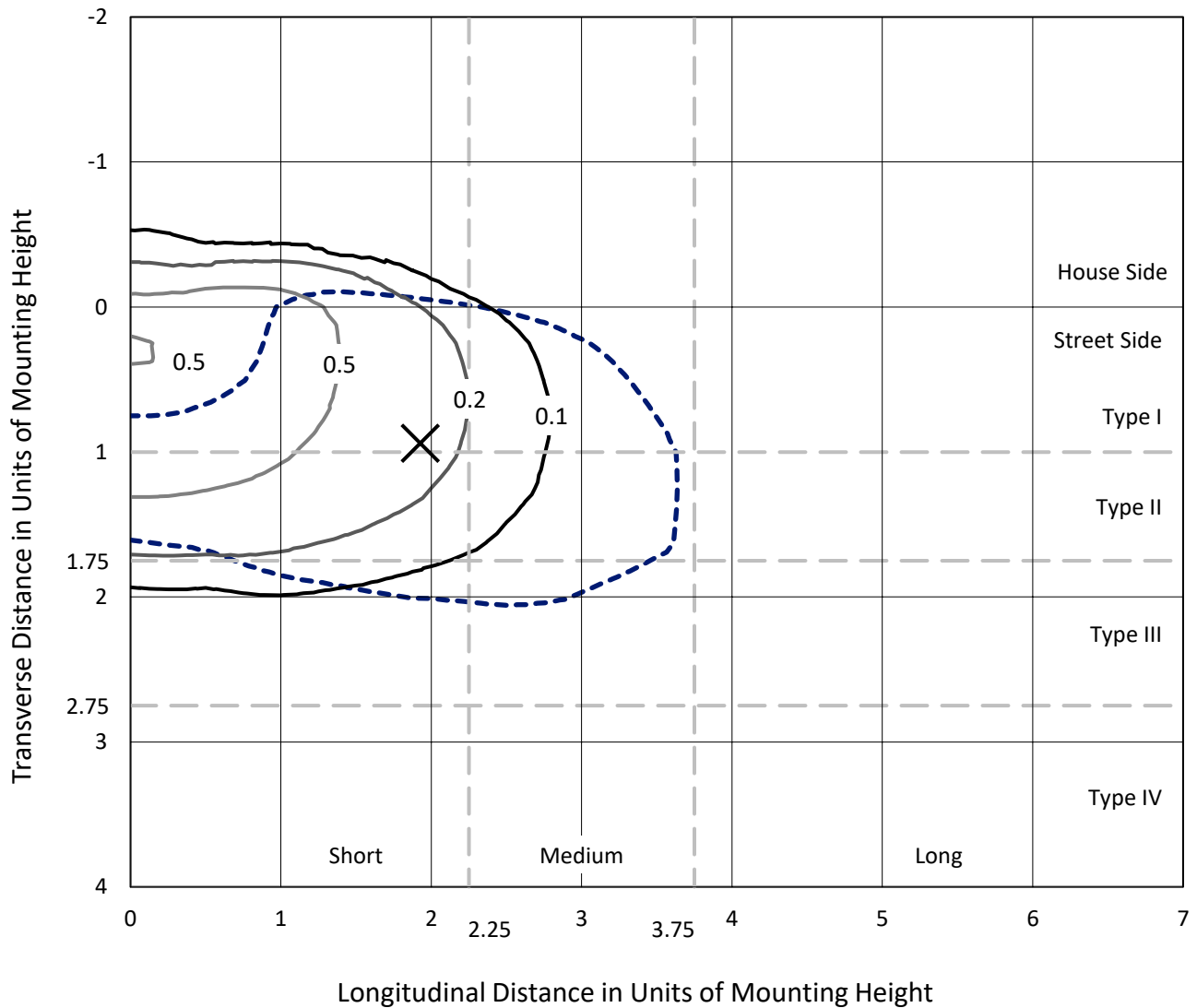
Lumens per Lamp: N/A  
Luminaire Lumens: 3073 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

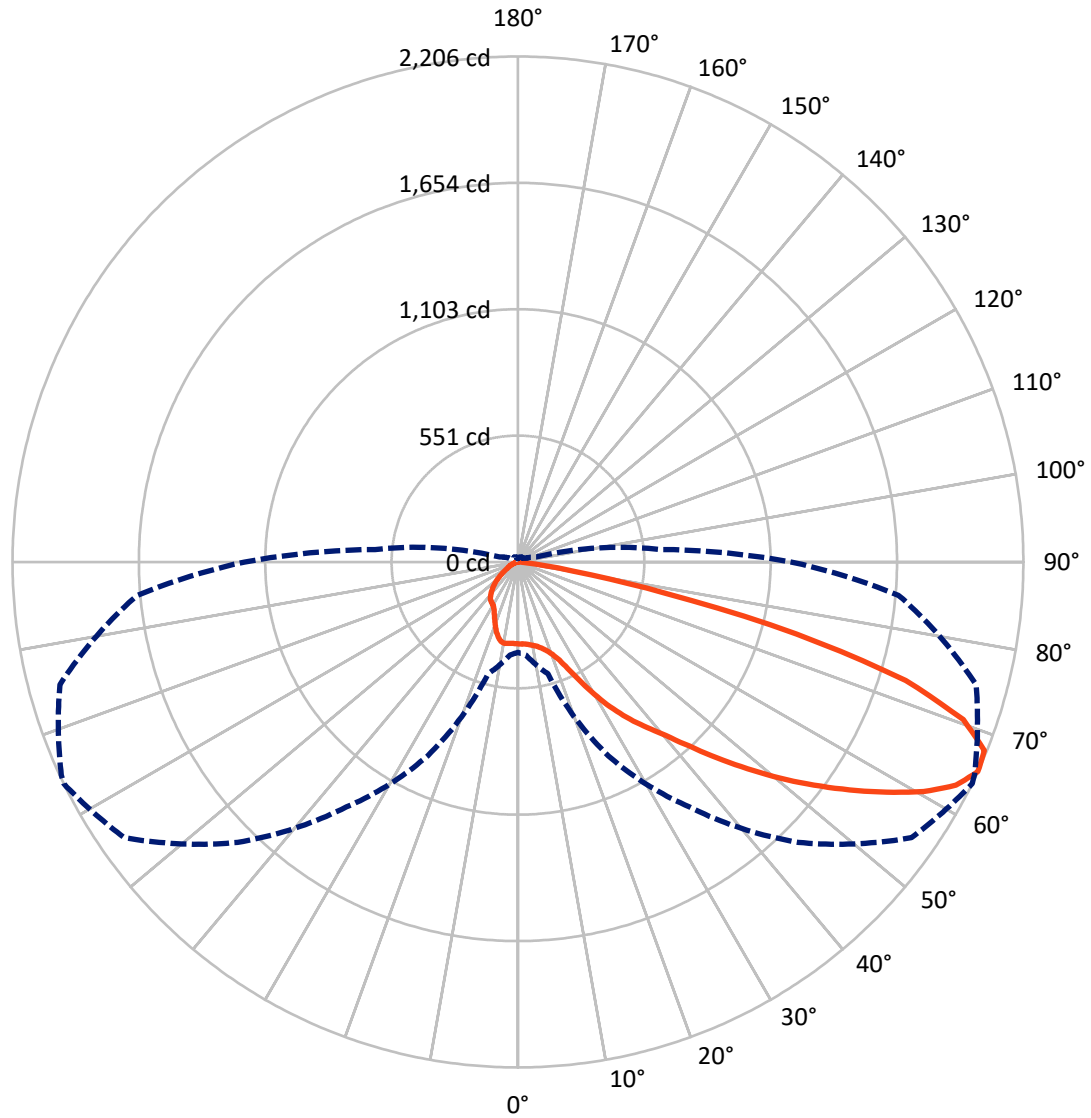
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	410.9	0.0	410.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	2662.0	0.0	2662.0
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	3073.0	0.0	3073.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.0	1.1
10°-20°	89.4	2.9
20°-30°	169.5	5.5
30°-40°	342.9	11.2
40°-50°	584.2	19.0
50°-60°	794.5	25.9
60°-70°	746.1	24.3
70°-80°	298.9	9.7
80°-90°	14.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3073.0	100.0
0°-180°	3073.0	100.0

**Coefficient of Utilization**



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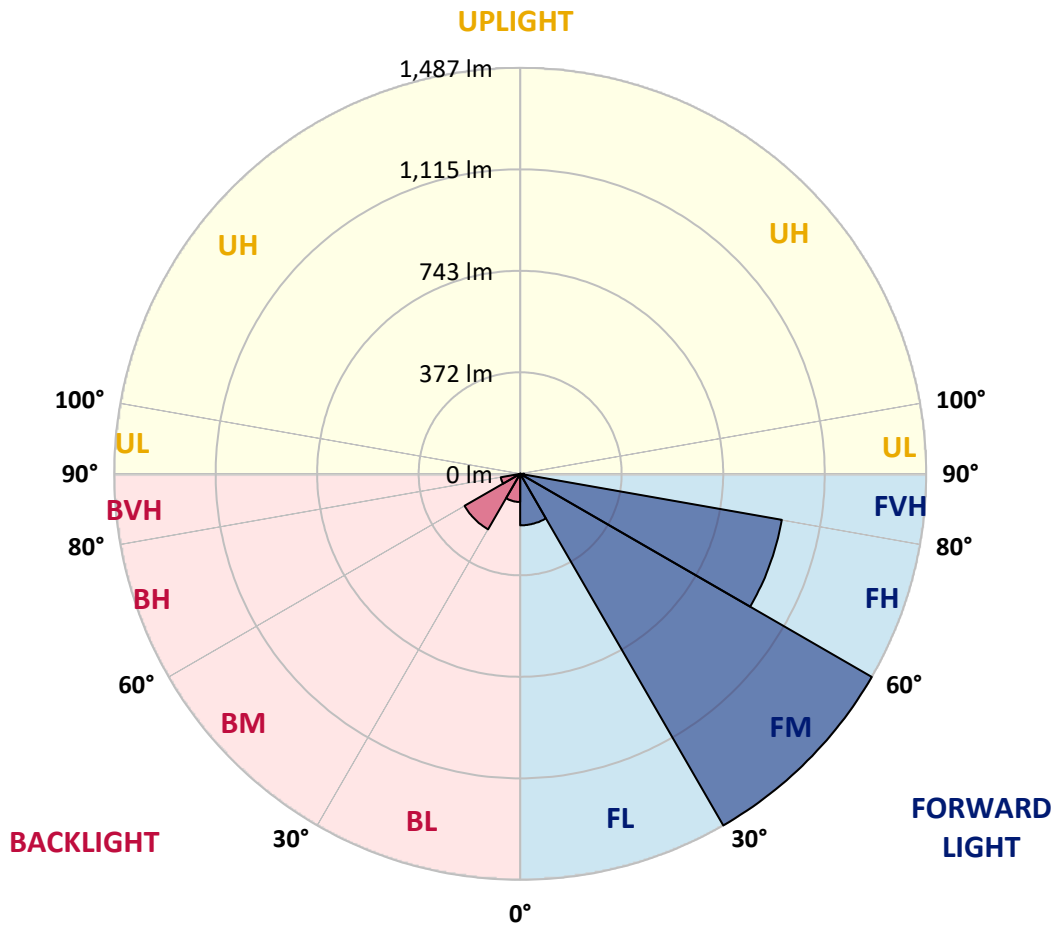
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	188.7	6.1			
FM (30°-60°)	1486.7	48.4			
FH (60°-80°)	972.8	31.7			G1/1800
FVH (80°-90°)	13.8	0.4			G1/100
BL (0°-30°)	103.2	3.4	B0/110		
BM (30°-60°)	234.9	7.6	B1/1000		
BH (60°-80°)	72.1	2.3	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4
2.5°	356.2	358.7	358.0	357.4	357.2	357.6	357.8	357.6	357.6	357.6
5°	349.4	351.4	351.4	352.9	354.9	357.4	359.3	359.7	360.1	360.7
7.5°	336.4	338.1	339.3	344.0	349.2	355.8	361.3	364.2	364.6	366.9
10°	327.6	329.6	331.7	336.6	344.0	353.9	363.4	370.4	371.4	376.8
12.5°	327.1	329.2	331.9	337.2	345.9	356.4	367.9	378.0	379.9	387.7
15°	331.5	333.9	336.4	343.0	352.3	365.0	377.4	390.0	391.8	402.9
17.5°	340.3	343.6	345.5	352.1	362.0	376.2	392.4	406.9	408.5	421.5
20°	357.8	361.7	362.4	367.7	377.4	392.6	412.0	429.9	432.0	446.8
22.5°	394.1	399.7	394.7	397.4	406.0	421.3	442.3	465.0	467.8	484.7
25°	458.0	465.8	453.0	448.5	452.2	468.0	494.4	523.1	526.3	539.9
27.5°	583.4	573.3	554.0	535.0	523.9	532.9	562.6	598.0	602.2	615.3
30°	721.2	712.4	686.2	644.2	617.8	616.4	643.8	683.3	688.1	700.6
32.5°	859.3	850.8	822.4	770.7	724.9	702.3	721.2	765.1	767.6	775.6
35°	995.0	986.4	957.9	905.0	848.7	797.2	793.5	843.0	843.8	852.3
37.5°	1131.6	1124.4	1094.1	1042.2	986.8	915.7	881.3	916.7	917.8	926.0
40°	1229.0	1232.1	1211.3	1171.1	1123.6	1045.9	979.8	995.2	989.0	1002.8
42.5°	1312.7	1318.9	1300.7	1280.5	1252.9	1184.5	1101.7	1099.0	1089.2	1096.6
45°	1385.0	1390.1	1373.9	1369.1	1368.5	1320.5	1235.0	1218.9	1205.1	1203.7
47.5°	1411.6	1421.4	1428.5	1444.3	1475.2	1455.0	1372.8	1347.9	1332.5	1321.1
50°	1421.7	1432.2	1456.1	1502.2	1575.3	1584.0	1510.0	1482.0	1463.1	1442.5
52.5°	1408.1	1426.8	1458.9	1536.6	1642.7	1687.4	1641.7	1617.2	1595.5	1561.9
55°	1327.9	1346.7	1412.4	1536.2	1676.3	1759.9	1766.1	1755.2	1730.9	1677.9
57.5°	1159.0	1186.8	1290.8	1483.9	1675.7	1822.3	1888.1	1895.9	1868.7	1792.9
60°	925.0	962.7	1089.6	1367.9	1624.0	1856.1	1995.0	2034.1	2005.3	1906.2
62.5°	645.4	689.1	809.2	1186.2	1505.7	1831.8	2073.0	2145.4	2123.5	2007.5
65°	393.7	407.7	504.5	933.4	1304.6	1730.0	2097.1	2205.5	2198.3	2069.5
67.5°	262.2	274.0	301.8	640.1	1012.7	1526.7	2039.5	2195.0	2197.1	2059.5
70°	158.0	168.1	186.2	372.3	656.3	1208.4	1860.9	2061.1	2073.0	1924.5
72.5°	65.1	71.9	88.4	168.7	339.9	767.0	1481.8	1769.6	1797.4	1618.2
75°	36.9	40.4	51.9	84.7	147.5	357.4	897.6	1256.2	1297.2	1115.3
77.5°	24.5	26.2	33.6	54.8	83.0	122.0	383.6	654.5	732.8	609.2
80°	16.5	17.9	23.1	36.7	54.0	52.3	122.2	242.5	298.3	209.3
82.5°	11.1	11.3	16.5	24.1	34.2	25.3	36.1	75.4	94.8	60.6
85°	6.4	6.2	12.2	14.0	15.2	10.5	10.9	22.7	29.7	25.5
87.5°	0.8	1.2	4.7	3.7	2.1	2.3	2.3	3.9	5.8	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
357.4	0°	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4
357.8	2.5°	357.8	357.6	357.0	356.4	354.9	354.1	354.5	354.1	353.9	354.1
360.5	5°	360.5	359.9	358.2	356.2	353.3	349.8	347.5	344.2	341.1	339.3
367.7	7.5°	367.7	367.1	364.8	359.1	349.8	335.2	321.8	310.0	301.2	296.0
379.3	10°	379.3	378.2	374.7	362.0	337.6	305.7	279.1	257.1	242.7	235.9
392.9	12.5°	392.9	391.6	385.4	359.3	314.6	264.7	228.0	203.5	190.1	184.2
408.5	15°	408.9	407.3	395.1	346.5	281.0	219.4	185.8	167.5	158.8	153.5
428.5	17.5°	428.9	426.0	402.3	327.3	244.5	184.8	159.9	146.1	138.4	133.3
454.7	20°	454.9	450.1	408.1	304.5	211.0	163.0	142.4	130.8	125.0	120.5
491.7	22.5°	491.1	484.3	415.1	279.8	187.3	147.9	129.4	120.9	116.2	111.0
543.4	25°	536.0	528.0	423.8	256.9	171.0	134.9	119.9	112.9	107.3	101.4
611.2	27.5°	598.9	584.4	434.1	238.1	157.0	123.8	111.2	103.4	97.0	92.1
688.1	30°	668.9	645.2	443.1	226.8	144.2	113.5	99.9	92.1	86.1	82.6
757.1	32.5°	735.2	703.1	449.1	221.9	132.7	101.8	87.6	79.1	74.6	73.5
824.6	35°	797.9	755.4	448.5	217.1	122.4	90.0	75.4	66.7	63.2	63.9
897.4	37.5°	870.0	811.3	444.2	209.7	113.9	79.3	64.9	57.3	54.2	54.4
985.7	40°	953.8	875.7	441.5	195.7	104.7	69.4	56.2	50.1	47.8	47.0
1078.9	42.5°	1043.2	938.2	441.9	179.8	93.1	60.6	50.3	45.1	43.1	42.4
1182.5	45°	1133.0	997.7	442.5	163.4	81.0	53.8	45.9	41.6	40.4	39.6
1287.5	47.5°	1217.5	1048.4	431.0	145.6	69.0	48.6	42.4	39.6	38.5	37.5
1393.0	50°	1296.2	1082.2	403.2	125.0	59.5	44.5	39.8	37.7	36.7	35.6
1488.6	52.5°	1357.4	1087.5	357.2	103.8	52.9	41.4	38.1	36.3	35.0	34.0
1565.9	55°	1384.6	1053.9	291.9	84.1	47.8	38.7	36.5	34.6	33.2	32.1
1626.6	57.5°	1377.6	983.3	227.6	67.6	42.8	36.1	34.4	33.2	31.5	29.9
1675.9	60°	1343.2	888.7	171.6	56.2	38.3	33.2	32.1	31.1	28.8	26.4
1694.8	62.5°	1283.6	769.8	122.4	46.6	33.4	29.9	29.5	28.6	25.3	20.8
1666.8	65°	1192.6	625.4	82.4	38.7	28.6	26.2	26.4	24.9	20.6	15.5
1564.2	67.5°	1059.5	457.3	52.7	31.7	23.9	21.8	22.0	21.2	17.5	13.2
1369.7	70°	889.9	302.8	34.4	24.1	19.2	16.9	18.1	18.3	14.8	10.7
1051.3	72.5°	652.4	178.8	24.1	17.9	14.0	11.7	14.8	15.2	11.9	8.0
632.4	75°	371.8	84.9	18.1	13.0	8.7	8.2	11.5	11.5	8.2	5.4
273.8	77.5°	156.2	35.4	12.8	8.4	4.9	4.7	7.8	7.2	4.1	2.5
66.7	80°	45.1	15.9	6.8	4.1	2.1	1.9	3.1	2.3	1.0	0.4
25.3	82.5°	17.7	7.0	2.7	1.6	0.8	0.8	0.4	0.0	0.0	0.0
14.4	85°	10.5	2.9	1.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0
3.1	87.5°	2.7	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
357.4
354.9
339.7
296.2
235.3
183.6
153.7
132.9
119.7
110.2
100.7
91.1
82.0
74.2
63.9
55.2
46.8
42.2
39.6
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35.6
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